## **EAST Search History**

| Ref# | Hits   | Search Query  | DBs                  | Default<br>Operator | Plurals | Time Stamp          |
|------|--------|---|----------------------|---------------------|---------|---------------------|
| S1   | 1      | "10552683"  | US-PGPUB;<br>USPAT   | OR                  | OFF     | 2009/05/04<br>09:09 |
| S2   | 26     | ((STEFAN) near2<br>(ZIMMERMANN)).INV.   | US-PGPUB;<br>USPAT   | OR                  | OFF     | 2009/05/04<br>09:13 |
| S3   | 7      | ((STEFAN) near2<br>(ZIMMERMANN)).INV.<br>and plasma   | US-PGPUB;<br>USPAT   | OR                  | OFF     | 2009/05/04<br>09:19 |
| S4   | 28     | ((STEFAN) near2<br>(ZIMMERMANN)).INV. or<br>((STEFAN) near2<br>(ZIMMERMAN)).INV.  | US-PGPUB;<br>USPAT   | OR                  | OFF     | 2009/05/04<br>09:20 |
| S5   | 27     | ((STEFAN) near2<br>(ZIMMERMANN)).INV. or<br>((STEFAN) near2<br>(ZIMMERMAN)).INV. and<br>plasma  | US-PGPUB;<br>USPAT   | OR                  | OFF     | 2009/05/04<br>09:21 |
| S6   | 8      | (((STEFAN) near2<br>(ZIMMERMANN)).INV. or<br>((STEFAN) near2<br>(ZIMMERMAN)).INV.)<br>and plasma                                      | US-PGPUB;<br>USPAT   | OR                  | OFF     | 2009/05/04<br>09:21 |
| S7   | 689534 | (((STEFAN) near2<br>(ZIMMERMANN)).INV. or<br>((STEFAN) near2<br>(ZIMMERMAN)).INV.)<br>and plasma or discharge                         | US-PGPUB;<br>USPAT   | OR                  | OFF     | 2009/05/04<br>09:21 |
| S8   | 12     | (((STEFAN) near2<br>(ZIMMERMANN)).INV. or<br>((STEFAN) near2<br>(ZIMMERMAN)).INV.)<br>and (plasma or<br>discharge)                    | US-PGPUB;<br>USPAT   | OR                  | OFF     | 2009/05/04<br>09:22 |
| S9   | 1      | "29911754"  | EPO; JPO;<br>DERWENT | OR                  | OFF     | 2009/05/04<br>09:23 |
| S10  | 8      | "1277218"   | EPO; JPO;<br>DERWENT | OR                  | OFF     | 2009/05/04<br>09:25 |
| S11  | 13     | "77218"   | EPO; JPO;<br>DERWENT | OR                  | OFF     | 2009/05/04<br>09:26 |
| S12  | 6      | (("4101783") or<br>("5354541") or<br>("1437760") or<br>("3967131") or<br>("5516493") or<br>("4383976")).PN. or<br>(2001/041155).CQLS. | US-PGPUB;<br>USPAT   | OR                  | OFF     | 2009/05/04<br>09:28 |

| S13 | 6     | (("4101783") or<br>("5354541") or<br>("2001041155") or<br>("1437760") or<br>("3967131") or<br>("5516493") or<br>("4383976")).PN.                    | US-PGPUB;<br>USPAT | OR | OFF | 2009/05/04<br>09:28 |
|-----|-------|---|--------------------|----|-----|---------------------|
| S14 | 7     | (("4101783") or<br>("5354541") or<br>("20010041155") or<br>("1437760") or<br>("3967131") or<br>("5516493") or<br>("4383976")).PN.                   | US-PGPUB;<br>USPAT | OR | OFF | 2009/05/04<br>09:28 |
| S15 | 11656 | ("discharge tube" or<br>"ozone generator" or<br>"plasma generator" or<br>"plasma reactor") and<br>electrode   | US-PGPUB;<br>USPAT | OR | OFF | 2009/05/04<br>09:52 |
| S16 | 2125  | ("discharge tube" or<br>"ozone generator" or<br>"plasma generator" or<br>"plasma reactor") and<br>electrode and ozone                               | US-PGPUB;<br>USPAT | OR | OFF | 2009/05/04<br>09:52 |
| S17 | 1256  | ("discharge tube" or<br>"ozone generator" or<br>"plasma generator" or<br>"plasma reactor") and<br>electrode and ozone and<br>plasma                 | US-PGPUB;<br>USPAT | OR | OFF | 2009/05/04<br>09:52 |
| S18 | 0     | ("discharge tube" or<br>"ozone generator" or<br>"plasma generator" or<br>"plasma reactor") and<br>electrode and ozone and<br>plasma and "422".ccls. | US-PGPUB;<br>USPAT | OR | OFF | 2009/05/04<br>09:52 |
| S19 | 207   | ("discharge tube" or<br>"ozone generator" or<br>"plasma generator" or<br>"plasma reactor") and<br>electrode and ozone and<br>plasma and "422".clas. | US-PGPUB;<br>USPAT | OR | OFF | 2009/05/04<br>09:52 |
| S20 | 1256  | ("discharge tube" or<br>"ozone generator" or<br>"plasma generator" or<br>"plasma reactor") and<br>electrode and ozone and<br>plasma                 | US-PGPUB;<br>USPAT | OR | OFF | 2009/05/04<br>10:12 |

| S21 | 234   | ("discharge tube" or<br>"ozone generator" or<br>"plasma generator" or<br>"plasma reactor") and<br>electrode and ozone and<br>plasma and tubular                              | US-PGPUB;<br>USPAT   | OR | OFF | 2009/05/04<br>10:13 |
|-----|-------|--|----------------------|----|-----|---------------------|
| S22 | 30400 | ("discharge tube" or<br>"ozone generator" or<br>"plasma generator" or<br>"plasma reactor")   | US-PGPUB;<br>USPAT   | OR | OFF | 2009/05/04<br>10:31 |
| S23 | 4921  | ("discharge tube" or<br>"ozone generator" or<br>"plasma generator" or<br>"plasma reactor") and<br>tubular  | US-PGPUB;<br>USPAT   | OR | OFF | 2009/05/04<br>10:31 |
| S24 | 420   | ("discharge tube" or<br>"ozone generator" or<br>"plasma generator" or<br>"plasma reactor") and<br>"outer electrode"  | US-PGPUB;<br>USPAT   | OR | OFF | 2009/05/04<br>10:31 |
| S25 | 834   | ("discharge tube" or<br>"ozone generator" or<br>"plasma generator" or<br>"plasma reactor") and<br>("outer electrode" or<br>"ground electrode")                               | US-PGPUB;<br>USPAT   | OR | OFF | 2009/05/04<br>10:31 |
| S26 | 585   | ("discharge tube" or<br>"ozone generator" or<br>"plasma generator" or<br>"plasma reactor") and<br>("outer electrode" or<br>"ground electrode") and<br>(contact or connector) | US-PGPUB;<br>USPAT   | OR | OFF | 2009/05/04<br>10:32 |
| S27 | 147   | ("discharge tube" or "ozone generator" or "plasma generator") and ("outer electrode" or "ground electrode") and (contact or connector) and mesh                              | US-PGPUB;<br>USPAT   | OR | OFF | 2009/05/04<br>11:25 |
| S29 | 2     | ("discharge tube" or "ozone generator" or "plasma generator" or "plasma reactor") and ("outer electrode" or "ground electrode") and (contact or connector) and mesh          | EPO; JPO;<br>DERWENT | OR | OFF | 2009/05/04<br>13:18 |

| S30 | 8     | ("discharge tube" or "ozone generator" or "plasma generator" or "plasma reactor") and ("outer electrode" or "ground electrode") and mesh | EPO; JPO;<br>DERWENT      | OR | OFF | 2009/05/04<br>13:18 |
|-----|-------|--|---------------------------|----|-----|---------------------|
| S31 | 91    | ("discharge tube" or "ozone generator" or "plasma generator" or "plasma reactor") and electrode and mesh                                 | EPO; JPO;<br>DERWENT      | OR | OFF | 2009/05/04<br>13:18 |
| S32 | 5     | "2327191"  | EPO; JPO;<br>DERWENT      | OR | OFF | 2009/05/04<br>13:31 |
| S33 | 7     | ("4342940"   "5081395"<br>  "5747946"   "6097155"<br>  "6310442"   "6621218"<br>  "6727649").PN. OR<br>("6946794").URPN.                 | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2009/05/04<br>13:39 |
| S34 | 248   | 422/186.18.ccls.   | US-PGPUB;<br>USPAT        | OR | OFF | 2009/05/04<br>14:11 |
| S35 | 677   | 422/186.07.ccls.   | US-PGPUB;<br>USPAT        | OR | OFF | 2009/05/04<br>15:27 |
| S36 | 371   | 422/186.07.ccls. and electrode   | US-PGPUB;<br>USPAT        | OR | OFF | 2009/05/04<br>15:28 |
| S37 | 135   | (wire with mesh) same<br>(interwoven or layered)<br>same (connect\$5 or<br>electric\$3)  | US-PGPUB;<br>USPAT        | OR | OFF | 2009/05/04<br>15:46 |
| S38 | 139   | ((wire or rod) with<br>mesh) same (interwoven<br>or layered) same<br>(connect\$5 or electric\$3)   | US-PGPUB;<br>USPAT        | OR | OFF | 2009/05/04<br>15:53 |
| S39 | 168   | ((wire or rod) same<br>mesh) same (interwoven<br>or layered) same<br>(connect\$5 or electric\$3)   | US-PGPUB;<br>USPAT        | OR | OFF | 2009/05/04<br>15:53 |
| S40 | 70    | ((wire or rod) same<br>mesh) same (interwoven<br>or layered) same (electric<br>\$3)  | US-PGPUB;<br>USPAT        | OR | OFF | 2009/05/04<br>15:54 |
| S41 | 11    | ("3350941"   "3460123"<br>  "3530855"  <br>"3940754").PN. OR<br>("4080593").URPN.  | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2009/05/04<br>15:57 |
| S42 | 399   | "electrical connection"<br>with mesh   | US-PGPUB;<br>USPAT        | OR | OFF | 2009/05/04<br>16:05 |
| S43 | 10472 | mesh with electrode  | US-PGPUB;<br>USPAT        | OR | OFF | 2009/05/05<br>11:58 |

| S44 | 7841 | (mesh with electrode)<br>and (plasma or discharge<br>or ion\$7)  | US-PGPUB;<br>USPAT   | OR | OFF | 2009/05/05<br>11:59 |
|-----|------|--|----------------------|----|-----|---------------------|
| S45 | 3199 | (mesh with electrode)<br>and (plasma or discharge<br>or ion\$7) and (dielectric<br>or insulator)                         | US-PGPUB;<br>USPAT   | OR | OFF | 2009/05/05<br>11:59 |
| S46 | 411  | (mesh with electrode)<br>and (plasma or discharge<br>or ion\$7) and (dielectric<br>or insulator) and ozone               | US-PGPUB;<br>USPAT   | OR | OFF | 2009/05/05<br>11:59 |
| S47 | 5    | "2358350"  | EPO; JPO;<br>DERWENT | OR | OFF | 2009/05/05<br>12:03 |
| S48 | 1    | "03168374"   | EPO; JPO;<br>DERWENT | OR | OFF | 2009/05/05<br>12:06 |
| S49 | 24   | "168374"   | EPO; JPO;<br>DERWENT | OR | OFF | 2009/05/05<br>12:06 |
| S50 | 1096 | (mesh with electrode)<br>and (plasma or discharge<br>or ion\$7) and (dielectric<br>or insulator) and leads               | US-PGPUB;<br>USPAT   | OR | OFF | 2009/05/05<br>14:11 |
| S51 | 822  | (mesh with electrode) and (plasma or discharge or ion\$7) and (dielectric or insulator) and leads and long               | US-PGPUB;<br>USPAT   | OR | OFF | 2009/05/05<br>14:11 |
| S52 | 36   | (mesh with electrode)<br>and (plasma or discharge<br>or ion\$7) and (dielectric<br>or insulator) and leads<br>near3 long | US-PGPUB;<br>USPAT   | OR | OFF | 2009/05/05<br>14:12 |
| S53 | 85   | (mesh with electrode)<br>same connector same<br>(rod or wire or "contact<br>pad")  | US-PGPUB;<br>USPAT   | OR | OFF | 2009/05/05<br>14:42 |
| S54 | 55   | taper with ("dielectric<br>tube" or "glass tube")  | US-PGPUB;<br>USPAT   | OR | OFF | 2009/05/06<br>12:01 |
| S55 | 8    | taper with ("dielectric<br>tube" or "glass tube")<br>and plasma  | US-PGPUB;<br>USPAT   | OR | OFF | 2009/05/06<br>12:02 |
| S56 | 1    | taper with ("dielectric<br>tube" or "glass tube")<br>same strength   | US-PGPUB;<br>USPAT   | OR | OFF | 2009/05/06<br>12:02 |
| S57 | 43   | taper with ("dielectric<br>tube" or "glass tube" or<br>dielectric or glass) same<br>strength                             | US-PGPUB;<br>USPAT   | OR | OFF | 2009/05/06<br>12:03 |

| S58 | 12  | taper with ("dielectric<br>tube" or "glass tube" or<br>dielectric or glass) same<br>strength and plasma  | US-PGPUB;<br>USPAT        | OR | OFF | 2009/05/06<br>12:04 |
|-----|-----|--|---------------------------|----|-----|---------------------|
| S59 | 127 | (taper\$2 or curve\$2)<br>with ("dielectric tube" or<br>"glass tube" or dielectric<br>or glass) same strength<br>and plasma                          | US-PGPUB;<br>USPAT        | OR | OFF | 2009/05/06<br>12:05 |
| S60 | 138 | (taper\$2 or curve\$2)<br>with ("dielectric tube" or<br>"glass tube" or dielectric<br>or glass) same strength<br>and (plasma or ozone or<br>ionizer) | US-PGPUB;<br>USPAT        | OR | OFF | 2009/05/06<br>12:07 |
| S61 | 946 | (taper\$2 or curve\$2)<br>with ("dielectric tube" or<br>"glass tube" or dielectric<br>or glass) same strength  | US-PGPUB;<br>USPAT        | OR | OFF | 2009/05/06<br>12:09 |
| S62 | 377 | (taper\$2 or curve\$2)<br>with ("dielectric tube" or<br>"glass tube" or dielectric<br>or glass) with strength  | US-PGPUB;<br>USPAT        | OR | OFF | 2009/05/06<br>12:09 |
| S63 | 10  | (taper\$2 or curve\$2)<br>with ("dielectric tube" or<br>"glass tube") with<br>strength   | US-PGPUB;<br>USPAT        | OR | OFF | 2009/05/06<br>12:10 |
| S64 | 73  | ozone near3 probe  | US-PGPUB;<br>USPAT        | OR | OFF | 2009/05/06<br>12:59 |
| S65 | 9   | "ozone probe"  | US-PGPUB;<br>USPAT        | OR | OFF | 2009/05/06<br>13:04 |
| S66 | 23  | ("0982587"   "0987902"<br>  "1059014"  <br>"3530058").PN. OR<br>("4216096").URPN.  | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2009/05/06<br>13:07 |
| S67 | 7   | ("3530058").URPN.  | USPAT                     | OR | OFF | 2009/05/06<br>13:24 |

## 5/6/2009 1:36:50 PM

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